



EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 2001296418
PUBLICATION DATE : 26-10-01

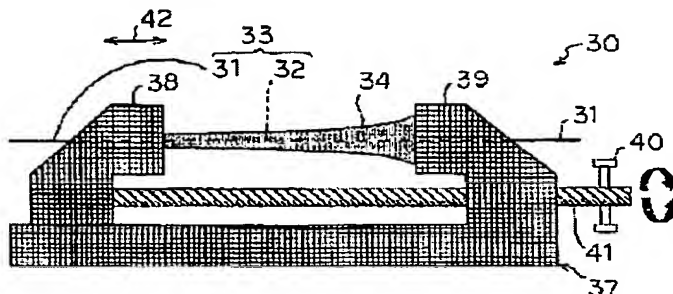
APPLICATION DATE : 11-04-00
APPLICATION NUMBER : 2000115816

APPLICANT : TOKYO ELECTRIC POWER CO
INC:THE;

INVENTOR : OGAWA OSAMU;

INT.CL. : G02B 5/18 G02B 6/00 G02B 6/10
G02B 6/16 G02B 26/06

TITLE : WAVELENGTH DISPERSION
COMPENSATION METHOD AND
WAVELENGTH DISPERSION
COMPENSATION ELEMENT



ABSTRACT : PROBLEM TO BE SOLVED: To provide a wavelength dispersion compensation method and wavelength dispersion compensation element which do not give rise to polarization dependence, uniformly distort optical fiber sections and do not require drive assembly.

SOLUTION: An optical fiber grating 33 formed with gratings 32 at an optical fiber 31 is fixed to penetrate the central axis of tapered member 34 and the pressure acting on both end faces, flanks or the entire surface of the tapered member 34 is changed, by which the distortion gradient within the optical fiber grating 33 is changed and a wavelength dispersion value is changed. Namely, the wavelength dispersion value may be changed and compactification is made possible by such mechanic mechanisms as a pressure impressing mechanism 37 for the end faces and pressure impressing mechanisms 45 and 53 for the flanks. Consequently, the wavelength dispersion compensation method and wavelength dispersion compensation element 30 which do not give rise to the polarization dependence, uniformly distort the optical fiber sections and do not require the drive assembly may be provided.

COPYRIGHT: (C)2001,JPO

BEST AVAILABLE COPY